

# Converting Colors

$Y_{xy}(36.0095, 0.3525, 0.2147)$

Have a look what the booklet for  
Yxy(36.0095, 0.3525, 0.2147)  
contains.

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# Color

**Yxy(35.9832, 0.3530, 0.2151)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF66DD
RGB	255, 102, 221
RGB Percent	100%, 40%, 87%
CMY	0.0000, 0.6001, 0.1333
CMYK	0.00, 0.60, 0.13, 0.00
HSL	313°, 100%, 70%
HSV	313°, 60%, 100%
XYZ	59.0519, 35.9832, 72.2508
YIQ	161.3130, 52.9890, 69.4450

# Conversions

## Conversions Part 2

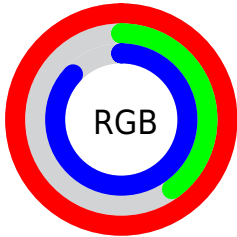
Format	Color
R <sub>Y</sub> B	255, 102, 221
Decimal	16738013
CIE Lab	66.51, 71.01, -32.19
CIE LCh	67, 77.969, 335.615
Yxy	35.9832, 0.3530, 0.2151
Android (android.graphics.Color)	4294928093 (0xFFFF66DD)
YUV	161.3130, 29.4257, 82.1635
Hunter-Lab	59.9860, 70.7450, -29.4223

# Details

The Yxy color **35.9832, 0.3530, 0.2151** is a light color, and the websafe version is hex **FF66CC**. A complement of this color would be **76.1198, 0.2903, 0.4837**, and the grayscale version is **35.6291, 0.3127, 0.3290**.

A 20% lighter version of the original color is **53.6216, 0.3171, 0.2366**, and **15.6784, 0.3610, 0.1883** is the 20% darker color. If you saturate the color by 10%, you get **31.4192, 0.3619, 0.2024**, and if you desaturate by 10%, it is **42.0904, 0.3445, 0.2312**.

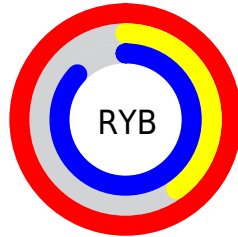
# Distribution



Red (100%)

Green (40%)

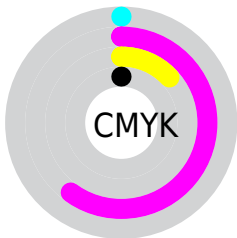
Blue (87%)



Red (100%)

Yellow (40%)

Blue (87%)

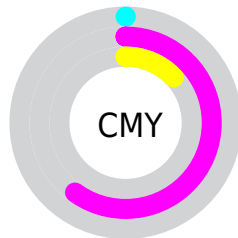


Cyan (0%)

Magenta (60%)

Yellow (13%)

Black (0%)



Cyan (0%)

Magenta (60%)

Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 35.9832, 0.3530, 0.2151 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 35.9832, 0.3530, 0.2151 by changing the saturation by 10% instead.





 35.9832, 0.3530,  
0.2151


 35.9832, 0.3530,  
0.2151


328.8871, 0.3349,  
0.2680


 24.4212, 0.3569,  
0.2032


 69.0061, 0.3469,  
0.2334


 15.6464, 0.3616,  
0.1886

 91.2359, 0.3444,  
0.2405

 9.2743, 0.3673,  
0.1704


 117.7903, 0.3423,  
0.2467

 4.9205, 0.3742,  
0.1474

 149.0539, 0.3405,  
0.2520

 2.2007, 0.3825,  
0.1176

185.4110, 0.3388,  
0.2567

 0.7204, 0.3922,  
0.0783

227.2459, 0.3374,

 0.0000, 0.4122,

0.2609

0.0000

274.9432, 0.3360,  
0.2646

0.0000, 0.3346,  
0.0000

0.0000, 0.0000,  
0.0000

35.9832, 0.3530,  
0.2151

35.9832, 0.3530,  
0.2151

31.4192, 0.3619,  
0.2024

42.0904, 0.3445,  
0.2312

28.2633, 0.3708,  
0.1940


49.8803, 0.3365,  
0.2496

26.3367, 0.3796,  
0.1904

59.4640, 0.3294,  
0.2694

25.3543, 0.3880,  
0.1911

70.9459, 0.3230,  
0.2897

 84.4228, 0.3175,  
0.3097

99.9845, 0.3127,  
0.3290

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



35.9832, 0.2411, 0.1769



35.9832, 0.3530, 0.2151



35.9832, 0.4719, 0.2746

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



35.9832, 0.3530, 0.2151



35.9832, 0.4469, 0.5018



35.9832, 0.1310, 0.2483

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



35.9832, 0.3530, 0.2151



76.1198, 0.2903, 0.4837

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



35.9832, 0.1665, 0.3666



35.9832, 0.3530, 0.2151



35.9832, 0.3473, 0.5505

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



35.9832, 0.3530, 0.2151



35.9832, 0.5202, 0.4220



35.9832, 0.2446, 0.5021



35.9832, 0.1328, 0.1857



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



35.9832, 0.3530, 0.2151



35.9832, 0.5239, 0.3209



35.9832, 0.2446, 0.5021



35.9832, 0.1382, 0.2816

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



35.9794, 0.3530, 0.2151



73.4908, 0.3218, 0.2938



21.8799, 0.2162, 0.1441



14.9468, 0.3236, 0.2879



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



35.9794, 0.3530, 0.2151



30.6841, 0.3637, 0.2004



32.8127, 0.4465, 0.2866



18.2272, 0.3172, 0.3107



13.2716, 0.3867, 0.1904



1.3084, 0.3776, 0.1854



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



35.9794, 0.3530, 0.2151



30.6841, 0.3637, 0.2004



79.0789, 0.2568, 0.3826



18.2272, 0.3172, 0.3107



13.2716, 0.3867, 0.1904

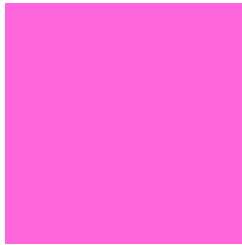


1.3084, 0.3776, 0.1854



# Previews

## White Background



This preview shows how the Yxy color 35.9832, 0.3530, 0.2151 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

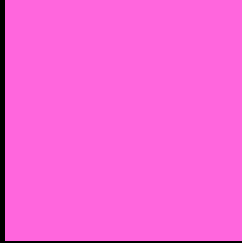
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 35.9832, 0.3530, 0.2151 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

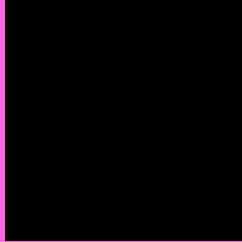
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 35.9832, 0.3530, 0.2151**

## Background



This preview shows how black text looks on a background with the Yxy color 35.9832, 0.3530, 0.2151.



This preview shows how white text looks on a background with the Yxy color 35.9832, 0.3530, 0.2151.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

35.9832, 0.3530, 0.2151

### Protanopia

36.4519, 0.2230, 0.2082

### Deuteranopia

36.1290, 0.2637, 0.2572



## Tritanopia

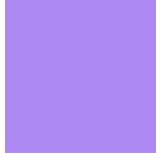
35.7016, 0.4430, 0.3198

# Trichromacy



## Original Color

35.9832, 0.3530, 0.2151



## Protanomaly

33.5323, 0.2575, 0.2032



## Deuteranomaly

33.9021, 0.2923, 0.2341



## Tritanomaly

35.3471, 0.4099, 0.2781

# Monochromacy



## Original Color

35.9832, 0.3530, 0.2151



## Achromatopsia

35.6400, 0.3127, 0.3290



## Achromatomaly

33.7772, 0.3277, 0.2737

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 35.9832, 0.3530, 0.2151 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(255, 102, 221)` looks like.

```
.text, #text, p{  
    color:rgb(255, 102, 221)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(255, 102, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 102, 221) }
```

## Border

The CSS property to change the border of an element to Yxy 35.9832, 0.3530, 0.2151 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(255, 102, 221) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(255, 102, 221) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(255, 102, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 102, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 102, 221);  
box-shadow:4px 4px 4px 4px rgb(255, 102,  
221) }
```



# Background

The CSS property to change the background color of an element to Yxy 35.9832, 0.3530, 0.2151 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 102, 221) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(255,  
102, 221) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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